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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-06-04** **Date: 08-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-04/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.390	542	660	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	565	680	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory

Note:

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CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-09-01** **Date: 13-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-18
Sample ID No	:	2018-01-09-01/01
Sample Type /Size	:	Precast Cover Slab(200mm thick)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.02	200.48	3.116	17673	340.9	19.3	17.9	22.4
2	Cover Slab-2	150.07	200.52	3.122	17685	342.3	19.4	18.0	22.5
3	Cover Slab-3	150.05	200.51	3.118	17680	341.5	19.3	18.0	22.5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-09-01**

Date: 13-01-18

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03

Agency : Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64

Customer's Reference : EE(Project)/YnkZone/WO/115/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-01-18

Sample ID No : 2018-01-09-01/02

Sample Type /Size : Precast Cover Slab(100mm thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 09/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.283	4477	100.9	22.5	21.0	26.2
2	Cover Slab-2	75.49	100.52	1.322	4475	98.3	22.0	20.4	25.5
3	Cover Slab-3	75.50	100.51	1.318	4476	94.5	21.1	19.6	24.5

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-01-06-04** **Date: 10-01-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03

Agency : Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64

Customer's Reference : EE(Project)/YnkZone/WO/115/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-04/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 08-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	–
2	Finess by Air permeablity method (m^2/kg, Min)	268.68	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-01-06-04**

Date: 05-02-18

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03

Agency : Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64

Customer's Reference : EE(Project)/YnkZone/WO/115/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-04/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 08-01-18

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-06-04** **Date: 09-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-04/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5780	6122	40.8	59.2	30-70
4	10 mm	4253	10375	69.2	30.8	10-35
5	4.75 mm	4222	14597	97.3	2.7	0-5
6	Pan	403	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-06-04** **Date: 09-01-18**

Sample ID No : 2018-01-06-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.57	–
5	Bulk Density(Compacted) (Kg/l)	1.61	–
6	Water Absorption(%)	0.22	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-06-04** **Date: 09-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-04/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	322	322	6.4	93.6	90-100
3	10 mm	2543	2865	57.3	42.7	25-55
4	4.75 mm	1890	4755	95.1	4.9	0-10
5	Pan	245	5000	100	0	–

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